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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,008	12/31/2001	Liang-Chi Huang	SUND 267	6128

7590 10/02/2003

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EXAMINER

NELSON, ALECIA DIANE

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 10/02/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/032,008

Applicant(s)

HUANG, LIANG-CHI

Examiner

Alecia D. Nelson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu (U.S. Patent No. 6,392,642).

With reference to **claim 1**, Wu teaches a method for automatically adjusting display quality, which is used for adjusting a display (see abstract), the method comprising the steps of providing a set of frame data (video frame signals 14-16) with a set of display timings (pixel clock 59), wherein the set of display timings has a display resolution (see column 4, lines 40-43); auto-phasing (timing generator 3) the set of frame data to obtain a set of phase data (see column 4, lines 32-52); and comparing the display resolution with a set of standard resolutions (see column 4, lines 22-31), and storing the when the display resolution corresponds to one of the set of standard resolutions (see column 4, lines 46-50).

Wu fails to specifically teach, automatically H-positioning to obtain a set of H-position data. However, Wu teaches that the second counter 60 will count the number of pixel clocks (59) generated by the phase locked loop (61) when the amplified video signals (55) are active. If the number of pixel clocks does not meet the standard resolution the frequency is adjusted until it reaches the standard resolution. This thereby adjusts the horizontal position.

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow for the repositioning of the horizontal position when adjusting the resolution of the display as suggest by Wu in order to provide automatic adjustment of the resolution of the displayed image, which would not inconvenience the user to manually adjust the resolution, to display an image meeting the standard resolutions which is not blurry when viewed.

With reference to **claims 2 and 3**, Wu teaches that the screen (52) can be an LCD panel, plasma display panel, or other displaying interfaces, which would include a projector type display.

With reference to **claim 4**, Wu fails to teach that the adjustments are repeated in order to perform multiple adjustments. However, this would be obvious to one having ordinary skill in the art for cases where the images being displayed changes from still to moving images, or when the detected resolution is different from the previously detected resolution in the case where the input source changes or the resolution of one image is

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different from the previously stored resolution. This would thereby allow the adjustments to continuously be made automatically, which would put a lesser amount of burden on the user to make the adjustment manually when the image data or input source changes after the initial automatic adjustment has been made.

With reference to **claim 5**, Wu teaches that the resolutions is one of the seven VESA standard resolution modes, one being 1024x768 (see column 4, lines 22-31).

With reference to **claim 6**, Wu teaches that the standard resolution modes are stored in a sampling reference table (66), which is located within memory (64) (see Figure 6).

With reference to **claims 7 and 8**, Wu fails to specifically teach the usage of a Flash ROM or EEPROM as the type of memory device. However does teach the usage of a memory device (66). Moreover, the usage of such memory devices is well known in the art.

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow the memory device as taught by Wu to be of Flash ROM or EEPROM type in order to prevent the user from altering or accidentally erasing the stored standard resolutions.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alecia D. Nelson whose telephone number is (703)305-0143. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Saras can be reached on (703)305-9720. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

adn/ADN
September 25, 2003


DENNIS-DOON CHOW
PRIMARY EXAMINER